

Storm Data and Unusual Weather Phenomena - June 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NEW MEXICO, Southeast				
LEA COUNTY				
HOBBS	06/03/07 16:44 MST		0	Hail (0.88 in)
	06/03/07 16:44 MST		0	32.7N, 103.13W
Nickel sized hail fell in Hobbs.				
EDDY COUNTY				
LAKEWOOD	06/04/07 18:00 MST		0	Hail (1.00 in)
	06/04/07 18:00 MST		0	32.63N, 104.37W
Quarter sized hail fell in Lakewood.				
EDDY COUNTY				
LAKEWOOD	06/09/07 19:55 MST		0	Hail (0.75 in)
	06/09/07 19:55 MST		0	32.63N, 104.37W
Penny sized hail fell in Lakewood.				
EDDY COUNTY				
5.0 S CARLSBAD	06/17/07 16:55 MST		0	Hail (0.75 in)
	06/17/07 16:55 MST		0	32.3477N, 104.23W
Penny sized hail fell at the intersection of Coleman Road and U.S. Highway 62/180 south of Carlsbad.				
EDDY COUNTY				
18.0 ENE CARLSBAD	06/17/07 17:26 MST		0	Hail (0.75 in)
	06/17/07 17:26 MST		0	32.5196N, 103.945W
Pea to penny sized hail piled to two inches deep on New Mexico State Highway 31, four to five miles south of U.S. Highway 62/180.				
EDDY COUNTY				
LAKEWOOD	06/23/07 18:22 MST		0	Thunderstorm Wind (EG 61 kt)
	06/23/07 18:22 MST		0	32.63N, 104.37W
No damage was reported.				
EDDY COUNTY				
(CNM)CARLSBAD ARPT	06/23/07 18:48 MST		0	Thunderstorm Wind (MG 51 kt)
	06/23/07 18:56 MST		0	32.33N, 104.27W
The Automated Surface Observing Station at Carlsbad (KCNM) recorded multiple wind gusts of 59 mph. No damage was reported.				
LEA COUNTY				
TATUM	06/23/07 19:06 MST		0	Thunderstorm Wind (MG 62 kt)
	06/23/07 19:06 MST		0	33.25N, 103.32W
The National Weather Service cooperative observer at Tatum recorded a 71 mph wind gust. No damage was reported.				
LEA COUNTY				
HOBBS	06/23/07 20:40 MST		0	Thunderstorm Wind (EG 52 kt)
	06/23/07 20:40 MST		0	32.7N, 103.13W
No damage was reported.				
A persistent upper level ridge was oriented southwest/northeast from the eastern Pacific Ocean into the central U.S. plains. A persistent shear axis remained entrenched over much of central and eastern Texas. West Texas and southeastern New Mexico was sandwiched between these two features several days prior to June 23rd. At the surface, a trough situated from the Texas Panhandle extended west-southwestward into southwestern New Mexico, then south roughly along the Rio Grande River.				
An upper level disturbance moved south between the aforementioned upper level features during the afternoon into a moderately unstable airmass. Thunderstorms developed in the afternoon over the higher terrain of eastern New Mexico and west Texas, and along				

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the surface trough over the Texas Panhandle. Convection organized into a linear Mesoscale Convective System (MCS) by that evening over eastern New Mexico as it moved southeastward into a low level jet. The MCS began to bow southeastward as it moved into the southeastern New Mexico plains. Wind gusts as high as 61 kt were reported over Lea county.				

LEA COUNTY

TATUM	06/26/07 18:29 MST		25K	Thunderstorm Wind (MG 68 kt)
GLADIOLA	06/26/07 19:00 MST		0	33.25N, 103.32W ~ 33.25N, 103.17W

A trained spotter measured sustained winds of 59 mph and at least one wind gust of 78 mph. Also reported power outages in Tatum due to the strong wind gusts. No other damage was reported. Another trained spotter reported 60 to 70 mph winds in Gladiola, east of Tatum on U.S. 380.

LEA COUNTY

LOVINGTON	06/26/07 19:55 MST		40K	Thunderstorm Wind (MG 63 kt)
	06/26/07 19:55 MST		0	32.93N, 103.35W

Trained spotters measured wind gusts up to 73 mph in Lovington. Power outages occurred throughout Hobbs and Lovington as a result of these high winds.

EDDY COUNTY

ARTESIA	06/26/07 20:26 MST		1.50K	Thunderstorm Wind (EG 52 kt)
	06/26/07 20:26 MST		0	32.83N, 104.4W

Spotters in Artesia reported winds gusting to 60 mph. These winds blew around lawn furniture and damaged a residential porch.

A strong squall associated with a frontal boundary and weak upper level disturbance moved into the forecast area causing widespread severe weather and isolated flooding. A Severe Thunderstorm Watch was issued at 6:10 PM CDT and remained in effect until 1 AM CDT and was then extended until 5 AM as the line continued to push south. Damage reports began reaching the office around 9:30 PM CDT (8:30 MDT) as the line entered the northwestern portion of the forecast area and continued until 3:30 AM CDT when the line exited the forecast area.

As the storm entered Lea County New Mexico, reports of wind speeds in excess of 70 mph began coming into the office. These high winds continued as the line surged forward into West Texas. In Seminole, 98 mph (measured) wind speeds toppled several radio towers including a 320 foot tower that fell on a church and bus damaging both. In addition, the roof of Beall's Department store was destroyed and two mobile homes were rolled and destroyed injuring four people.

As the line continued its southward progression, so did the damaging winds. Many locations began experiencing power outages including two of the three television stations in the Midland/Odessa area, and Midland International Airport. WFO Midland and the Gaines County Emergency Operation Center continued working on back up generator power until commercial power was restored to the area. A 93 mph wind gust was measured at Midland International Airport just prior to the power loss, which rendered it inoperable for the remainder of the night.

The event continued into the early morning hours on Wednesday, where Dryden reported a 63 mph wind gust prior to thunderstorms exiting the area.

Post storm damage surveys indicated that damage across the area was caused by a derecho. A derecho is a "widespread and long-lived wind storm associated with a band of rapidly moving showers or thunderstorms."

While straight-line winds are common across West Texas – especially during the late spring and early summer – the magnitude of the wind speeds for this event is quite rare. As an example, the 93 mph wind reported in Midland eclipsed the old record of 86 mph set in February 1960, and was the strongest wind ever recorded in Midland since the NWS began official record keeping in 1930.

During this long-lived weather episode, all but two of the 26 counties within WFO Midland's CWA experienced severe weather. The majority of these locations experienced high wind events, which resulted in power outages across the area. Because of backup power capability, WFO Midland was able to maintain warning operations throughout the entire severe weather event.

Summary of measured wind reports:

Dryden (K6R6) - 55 kts (63 mph)
 Big Spring (KBPG) - 51 kts (59 mph)
 Fort Stockton (KFST) - 57 kts (66 mph)
 Guadalupe Pass (KGDP) - 62 kts (71 mph)
 Wink (KINK) - 58 kts (67 mph)
 Midland (KMAF) - 81 kts (93 mph)*
 Odessa (KODO) - 55 kts (63 mph)
 Seagraves 1 SW (KSGV) - 66 kts (76 mph)

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Andrews 2 E (KANS) - 51 kts (59 mph)*
 Seminole 2 NNE (KSMS) - 85 kts (98 mph)*
 Lamesa 2 SE (KLES) - 45 kts (52 mph)*
 Gail 2 ESE (KGGS) - 43 kts (50 mph)*
 Pecos (KPEQ) - 56 kts (64 mph)
 McDonald Observatory - 61 kts (70 mph)
 Tatum, NM Co-op Observer - 68 kts (78 mph)

*These sites lost power shortly after observations, it may be assumed that peak wind gusts were somewhat higher than observed.

EDDY COUNTY

ARTESIA ARPT	06/28/07 00:50 MST	0	Thunderstorm Wind (MG 50 kt)
	06/28/07 00:50 MST	0	32.85N, 104.47W

The Automated Weather Observing System at Artesia (KATS) recorded a wind gust of 58 mph. No damage was reported.

TEXAS, West

GAINES COUNTY

LOOP	06/01/07 17:43 CST	0	Hail (1.75 in)
2.0 W LOOP	06/01/07 17:47 CST	0	32.92N, 102.42W ~ 32.92N, 102.454W

GAINES COUNTY

6.0 S LOOP	06/01/07 18:13 CST	0	Hail (2.75 in)
	06/01/07 18:13 CST	0	32.8333N, 102.42W

Golfball to baseball sized hail fell at the intersection of Farm to Market Roads 303 and 1066.

GAINES COUNTY

15.0 E SEMINOLE	06/01/07 18:25 CST	0	Tornado (EF0, L: 2.50 mi , W: 50 yd)
15.1 ESE SEMINOLE	06/01/07 18:35 CST	0	32.72N, 102.392W ~ 32.6365N, 102.41W

An off duty NWS employee reported a tornado that lasted between five and ten minutes and was approximately 50 yards wide. This tornado remained in open country and no structures were affected.

GAINES COUNTY

3.0 SSE LOOP	06/01/07 19:10 CST	0	Hail (4.25 in)
	06/01/07 19:10 CST	0	32.8799N, 102.4W

Golfball to softball sized hail fell at the intersection of Farm to Market Roads 1016 and 133.

MARTIN COUNTY

3.5 W TARZAN	06/01/07 19:40 CST	0	Hail (2.00 in)
4.0 SW TARZAN	06/01/07 19:43 CST	0	32.3N, 102.03W ~ 32.2591N, 102.018W

Quarter to lime sized hail was falling at and just south of the intersection of Farm to Market Road 1212 and Texas Highway 176.

MARTIN COUNTY

7.0 W TARZAN	06/01/07 19:56 CST	0	Thunderstorm Wind (EG 50 kt)
	06/01/07 19:56 CST	0	32.3N, 102.09W

Three to five miles east of the intersection of Texas Highways 349 and 176, 50 to 60 mph wind gusts were estimated. No damage was reported.

MARTIN COUNTY

7.0 W TARZAN	06/01/07 19:56 CST	0	Hail (1.00 in)
	06/01/07 20:02 CST	0	32.3N, 102.09W

Quarter sized hail fell three to five miles east of the intersection of Texas Highways 349 and 176.

MARTIN COUNTY

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
6.0 SW TARZAN	06/01/07 20:16 CST		0	Hail (1.75 in)
	06/01/07 20:16 CST		0	32.2387N, 102.043W
Golfball sized hail fell on Farm to Market Road 1212, five to seven miles south of its intersection with Texas Highway 176.				
GAINES COUNTY				
11.0 SW CEDAR LAKE	06/01/07 22:39 CST		0	Hail (1.00 in)
	06/01/07 22:39 CST		0	32.7176N, 102.404W
Quarter sized hail covered the ground at the intersection of U.S. Highway 180 and Farm to Market Road 303.				
BORDEN COUNTY				
14.0 NE GAIL	06/02/07 22:00 CST		0	Hail (2.00 in)
	06/02/07 22:00 CST		0	32.9131N, 101.26W
Hen egg sized hail fell northeast of Gail accompanied by strong winds and a funnel cloud.				
BORDEN COUNTY				
10.0 N GAIL	06/02/07 23:16 CST		0	Hail (2.75 in)
	06/02/07 23:16 CST		0	32.9146N, 101.43W
Baseball sized hail fell north of Gail.				
GAINES COUNTY				
LOOP	06/02/07 23:23 CST		0	Hail (2.75 in)
	06/02/07 23:23 CST		0	32.92N, 102.42W
Baseball sized hail fell in Loop.				
GAINES COUNTY				
5.0 SSE LOOP	06/02/07 23:40 CST		0	Tornado (EF0, L: 1.00 mi , W: 50 yd)
6.0 SSE LOOP	06/02/07 23:45 CST		0	32.8532N, 102.387W ~ 32.8399N, 102.381W
A trained spotter observed a tornado northeast of the intersection of Gaines County Road 116 and Farm to Market Road 1420. This occurred in open country and did no damage.				
MITCHELL COUNTY				
WESTBROOK	06/03/07 00:00 CST		0	Thunderstorm Wind (EG 52 kt)
	06/03/07 00:00 CST		0	32.35N, 101.02W
A spotter estimated 60 mph wind gusts. No damage was reported.				
GAINES COUNTY				
4.0 S LOOP	06/03/07 00:05 CST		0	Hail (1.75 in)
	06/03/07 00:05 CST		0	32.8622N, 102.42W
Golfball sized hail fell at the intersection of Gaines County Roads 303 and 120.				
DAWSON COUNTY				
LAMESA	06/03/07 00:30 CST		20K	Thunderstorm Wind (EG 50 kt)
	06/03/07 00:30 CST		0	32.73N, 101.95W
Power lines and a one and a half foot diameter tree were downed by thunderstorm winds in the Forest Park area of Lamesa.				
DAWSON COUNTY				
LAMESA	06/03/07 00:35 CST		10K	Thunderstorm Wind (MG 59 kt)
	06/03/07 00:35 CST		0	32.73N, 101.95W
The Texas Tech Universty Mesonet site in Lamesa recorded a 68 mph wind gust. Power lines and at least one tree were downed by these winds.				
MARTIN COUNTY				
THREE LEAGUES	06/03/07 00:50 CST		35K	Thunderstorm Wind (EG 52 kt)
	06/03/07 00:50 CST		0	32.48N, 101.97W

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Multiple powerlines were blown down along Farm to Market Road 2002.				
MITCHELL COUNTY				
5.0 W WESTBROOK	06/03/07 01:04 CST		0	Hail (0.75 in)
	06/03/07 01:04 CST		0	32.35N, 101.106W
HOWARD COUNTY				
4.0 S BIG SPRING	06/03/07 01:40 CST		0	Hail (1.75 in)
	06/03/07 01:40 CST		0	32.1922N, 101.47W
GLASSCOCK COUNTY				
15.0 N GARDEN CITY	06/03/07 01:50 CST		20K	Thunderstorm Wind (EG 58 kt)
	06/03/07 02:05 CST		0	32.0869N, 101.5W
Extensive tree damage occurred with this storm including many six inch diameter mesquite branches broken and a ten inch diameter tree that broke about four feet off the ground. A windmill also was uprooted including the concrete base pulled out of the ground. Seven power poles were snapped at various heights. One pole was broken in two spots.				
MARTIN COUNTY				
11.0 SW TARZAN	06/03/07 02:05 CST		0	Thunderstorm Wind (EG 52 kt)
	06/03/07 02:05 CST		0	32.1876N, 102.103W
The wind gust was reported by a motorist on Texas State Highway 349. No damage was reported.				
JEFF DAVIS COUNTY				
9.0 N FT DAVIS	06/03/07 12:25 CST		0	Hail (1.00 in)
	06/03/07 12:25 CST		0	30.7101N, 103.88W
ANDREWS COUNTY				
ANDREWS	06/03/07 13:33 CST		0	Hail (1.75 in)
	06/03/07 13:44 CST		0	32.32N, 102.55W
Penny to golfball sized hail fell in Andrews.				
ANDREWS COUNTY				
4.0 E ANDREWS	06/03/07 13:40 CST		0	Tornado (EF0, L: 2.77 mi , W: 50 yd)
6.0 ESE ANDREWS	06/03/07 13:45 CST		0	32.32N, 102.482W ~ 32.2868N, 102.455W
A tornado was reported by a person that viewed it through binoculars at a location 25 miles east of the tornado. The tornado lasted for five minutes.				
ANDREWS COUNTY				
ANDREWS	06/03/07 13:43 CST		5K	Hail (2.50 in)
	06/03/07 13:43 CST		0	32.32N, 102.55W
Tennis ball sized hail fell on the west side of Andrews.				
ECTOR COUNTY				
3.0 E ODESSA	06/03/07 14:51 CST		0	Hail (0.75 in)
	06/03/07 14:51 CST		0	31.85N, 102.319W
Penny sized hail fell along Texas Highway 191 just east of Odessa.				
MIDLAND COUNTY				
(MAF) MIDLAND INTL	06/03/07 14:52 CST		0	Hail (1.75 in)
	06/03/07 14:52 CST		0	31.93N, 102.2W
Penny to golfball sized hail fell near the Midland International Airport.				
BREWSTER COUNTY				
ALPINE	06/03/07 15:35 CST		0	Hail (0.88 in)
	06/03/07 15:35 CST		0	30.37N, 103.67W

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WINKLER COUNTY				
7.0 E KERMIT ROBINSON ARPT	06/03/07 15:36 CST		0	Tornado (EF0, L: 4.00 mi , W: 50 yd)
11.0 E KERMIT ROBINSON ARPT	06/03/07 15:42 CST		0	31.85N, 102.951W ~ 31.85N, 102.883W
A brief tornado was reported to have multiple funnels. The viewer was located approximately 20 miles to the southeast of the tornado.				
ECTOR COUNTY				
2.0 W NOTREES	06/03/07 15:48 CST		0	Tornado (EF0, L: 0.50 mi , W: 1320 yd)
1.5 W NOTREES	06/03/07 15:48 CST		0	31.92N, 102.784W ~ 31.92N, 102.775W
A tornado 3/4 of a mile wide was reported near the Ector/Winkler County line along highway 302. The tornado lasted for approximately one minute.				
WINKLER COUNTY				
11.0 E KERMIT ROBINSON ARPT	06/03/07 15:50 CST		0	Hail (1.25 in)
	06/03/07 15:50 CST		0	31.85N, 102.883W
Half dollar sized hail fell on Texas Highway 302.				
REAGAN COUNTY				
12.0 NNW STILES	06/03/07 15:56 CST		0	Hail (2.00 in)
	06/03/07 15:56 CST		0	31.5603N, 101.658W
Lemon sized hail fell at the North Reagan Fire Station.				
WINKLER COUNTY				
15.0 E KERMIT ROBINSON ARPT	06/03/07 15:58 CST		0	Hail (2.00 in)
	06/03/07 15:58 CST		0	31.85N, 102.815W
Lime sized hail was found in the bar ditches on Texas State Highway 302.				
REAGAN COUNTY				
9.0 NE STILES	06/03/07 16:15 CST		0	Hail (1.25 in)
	06/03/07 16:25 CST		0	31.492N, 101.472W
Quarter to half dollar sized hail fell in rural North Central Reagan County.				
ECTOR COUNTY				
5.0 W PLEASANT FARMS	06/03/07 16:23 CST		0	Hail (1.00 in)
	06/03/07 16:23 CST		0	31.68N, 102.405W
Nickel to quarter sized hail fell near K-Bar Ranch and Pleasant Farms.				
BREWSTER COUNTY				
23.0 N PANTHER JUNCTION	06/03/07 17:15 CST		0	Hail (1.75 in)
	06/03/07 17:15 CST		0	29.6325N, 103.3W
REEVES COUNTY				
BALMORHEA	06/03/07 17:34 CST		0	Hail (0.88 in)
	06/03/07 17:34 CST		0	30.98N, 103.73W
LOVING COUNTY				
11.0 N MENTONE	06/03/07 17:38 CST		0	Tornado (EF0, L: 2.00 mi , W: 50 yd)
11.0 NNE MENTONE	06/03/07 17:42 CST		0	31.859N, 103.6W ~ 31.8469N, 103.528W
A tornado formed over open country north of Mentone. No damage occurred.				
WARD COUNTY				
PYOTE	06/03/07 17:46 CST		0	Hail (1.75 in)
	06/03/07 17:46 CST		0	31.53N, 103.13W
WARD COUNTY				

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PYOTE	06/03/07 18:11 CST		0	Hail (1.00 in)
	06/03/07 18:11 CST		0	31.53N, 103.13W
JEFF DAVIS COUNTY				
10.0 WNW FT DAVIS	06/03/07 18:17 CST		0	Hail (1.75 in)
	06/03/07 18:17 CST		0	30.6353N, 104.035W
Golfball sized hail fell on Texas State Highway 118, two miles south of the McDonald Observatory.				
WINKLER COUNTY				
WINK	06/03/07 18:27 CST		0	Hail (0.75 in)
	06/03/07 18:27 CST		0	31.75N, 103.15W
A large upper level low was situated over the northern plains with a west coast ridge edging into west Texas and southeastern New Mexico. This produced favorable northwest flow aloft and contributed to a long weekend of severe weather over the area.				
Instability and wind shear combined to produce several weak tornadoes across west Texas and southeastern New Mexico. These tornadoes remained over open country and did no significant damage.				
WINKLER COUNTY				
(INK)WINKLER CO ARPT	06/04/07 22:08 CST		0	Thunderstorm Wind (MG 52 kt)
	06/04/07 22:17 CST		0	31.78N, 103.2W
The Automated Surface Observing Station at Wink (KINK) recorded several wind gusts of 60 mph. No damage was reported.				
WARD COUNTY				
ROYALTY	06/04/07 22:50 CST		0	Thunderstorm Wind (MG 66 kt)
	06/04/07 22:54 CST		0	31.37N, 102.88W
A trained spotter reported several wind gusts up to 76 mph. No damage was reported.				
BREWSTER COUNTY				
CASTOLON	06/08/07 16:12 CST		0	Hail (0.75 in)
	06/08/07 16:12 CST		0	29.13N, 103.52W
BREWSTER COUNTY				
2.0 NE LAJITAS	06/08/07 16:30 CST		0	Flash Flood (due to Heavy Rain)
	06/08/07 19:30 CST		0	29.3005N, 103.757W
Six feet of water flowed through Comanche Creek across Farm to Market Road 170 just northeast of Lajitas.				
BREWSTER COUNTY				
LAJITAS	06/08/07 17:00 CST		0	Hail (1.00 in)
	06/08/07 17:00 CST		0	29.28N, 103.78W
PRESIDIO COUNTY				
2.0 E PRESIDIO	06/08/07 17:34 CST		0	Hail (1.00 in)
	06/08/07 17:34 CST		0	29.55N, 104.337W
Quarter sized hail fell east of Presidio.				
MITCHELL COUNTY				
7.0 SW COLORADO CITY	06/09/07 17:18 CST		0	Hail (0.75 in)
	06/09/07 17:18 CST		0	32.3284N, 100.935W
MITCHELL COUNTY				
7.0 W COLORADO CITY	06/09/07 17:44 CST		0	Hail (0.75 in)
	06/09/07 17:44 CST		0	32.4N, 100.97W
Penny sized hail fell in I-20 near mile marker 209.				
SCURRY COUNTY				

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3.0 E SNYDER	06/09/07 17:50 CST		0	Thunderstorm Wind (MG 60 kt)
	06/09/07 18:00 CST		0	32.72N, 100.848W
The Texas Tech Mesonet site at Snyder recorded a wind gust of 69 mph. A tree was split in two and a basketball goal was overturned.				
SCURRY COUNTY				
SNYDER	06/09/07 18:57 CST		0	Hail (0.75 in)
	06/09/07 18:57 CST		0	32.72N, 100.9W
PRESIDIO COUNTY				
PRESIDIO	06/09/07 20:54 CST		0	Flash Flood (due to Heavy Rain)
	06/09/07 23:54 CST		0	29.55N, 104.37W
Heavy rains resulted in six inches of running water on many streets in Presidio and along Farm to Market Road 170.				
CULBERSON COUNTY				
(GDP)GUADALUPE PASS	06/11/07 17:13 CST		0	Thunderstorm Wind (MG 65 kt)
	06/11/07 17:19 CST		0	31.8N, 104.8W
The Automated Surface Observing System at Guadalupe Pass (KGDP) recorded two wind gusts of 75 mph. No damage was reported.				
BREWSTER COUNTY				
ALPINE	06/11/07 17:18 CST		0	Flash Flood (due to Heavy Rain)
	06/12/07 00:18 CST		0	30.37N, 103.67W
Widespread flooding occurred throughout the city of Alpine. Low water crossings had up to 1.5 feet of water running over the road. Several streets had to be closed due to high water from heavy rains.				
PECOS COUNTY				
2.0 S FT STOCKTON	06/11/07 20:30 CST		0	Flash Flood (due to Heavy Rain)
	06/11/07 22:30 CST		0	30.8511N, 102.87W
Flash flooding occurred south of Fort Stockton along U.S. Highways 385 and 285. Following the event, the Texas Department of Transportation had to remove debris off the highways.				
BREWSTER COUNTY				
ALPINE	06/15/07 15:12 CST		0	Hail (0.75 in)
	06/15/07 15:12 CST		0	30.37N, 103.67W
REAGAN COUNTY				
5.0 SSE STILES	06/15/07 19:02 CST		0	Hail (1.50 in)
	06/15/07 19:02 CST		0	31.3332N, 101.548W
Ping pong ball sized hail fell on Texas State Highway 137, one mile west of Farm to Market Road 33.				
REAGAN COUNTY				
9.0 NE BIG LAKE	06/15/07 19:10 CST		0	Hail (1.00 in)
	06/15/07 19:20 CST		0	31.292N, 101.362W
Quarter sized hail fell northeast of Big Lake.				
WINKLER COUNTY				
6.0 N KERMIT	06/17/07 20:55 CST		0	Hail (0.88 in)
	06/17/07 20:55 CST		0	31.9367N, 103.08W
Nickel sized hail fell north of Kermit.				
CULBERSON COUNTY				
(GDP)GUADALUPE PASS	06/19/07 18:35 CST		0	Thunderstorm Wind (MG 58 kt)
	06/19/07 18:41 CST		0	31.8N, 104.8W
The Automated Surface Observing System at Guadalupe Pass (KGDP) recorded several wind gusts to 67 mph. No damage was reported.				
CULBERSON COUNTY				

Storm Data and Unusual Weather Phenomena - June 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(GDP)GUADALUPE PASS	06/20/07 13:04 CST		0	Thunderstorm Wind (MG 53 kt)
	06/20/07 13:04 CST		0	31.8N, 104.8W

The Automated Surface Observing Station at Guadalupe Pass (KGDP) recorded a wind gust of 61 mph. No damage was reported.

BREWSTER COUNTY

ALPINE	06/23/07 21:40 CST		0	Hail (0.75 in)
	06/23/07 21:40 CST		0	30.37N, 103.67W

GAINES COUNTY

2.0 NNE SEMINOLE	06/23/07 22:10 CST		0	Thunderstorm Wind (MG 51 kt)
	06/23/07 22:10 CST		0	32.7467N, 102.637W

The Texas Tech Mesonet site at Seminole (KSMS) recorded a wind gust of 59 mph. No damage was reported.

A persistent upper level ridge was oriented southwest/northeast from the eastern Pacific Ocean into the central U.S. plains. A persistent shear axis remained entrenched over much of central and eastern Texas. West Texas and southeastern New Mexico was sandwiched between these two features several days prior to June 23rd. At the surface, a trough situated from the Texas Panhandle extended west-southwestward into southwestern New Mexico, then south roughly along the Rio Grande River.

An upper level disturbance moved south between the aforementioned upper level features during the afternoon into a moderately unstable airmass. Thunderstorms developed in the afternoon over the higher terrain of eastern New Mexico and west Texas, and along the surface trough over the Texas Panhandle. Convection organized into a linear Mesoscale Convective System (MCS) by that evening over eastern New Mexico as it moved southeastward around a low level jet. The MCS began to bow southeastward as it moved into the southeastern New Mexico plains. Wind gusts as high as 61 kt were reported over Lea county.

PECOS COUNTY

19.0 SSE BELDING	06/24/07 17:02 CST		0	Hail (0.88 in)
	06/24/07 17:02 CST		0	30.5262N, 102.898W

Dime to nickel sized hail fell on U.S. Highway 385.

PECOS COUNTY

26.0 S FT STOCKTON	06/24/07 17:02 CST		0	Hail (0.88 in)
	06/24/07 17:02 CST		0	30.5041N, 102.87W

Penny to nickel sized hail fell along U.S. Highway 385 south of Fort Stockton.

GAINES COUNTY

SEAGRAVES	06/26/07 21:14 CST		20K	Thunderstorm Wind (MG 66 kt)
	06/26/07 21:25 CST		0	32.93N, 102.55W

The West Texas Mesonet site one mile southwest of Seagraves (KSGV) recorded a wind gust of 76 mph. Trees and power lines were downed, roofs were damaged and horse trailers were flipped over. A tree limb went through a company vehicle.

GAINES COUNTY

SEMINOLE	06/26/07 21:21 CST		5M	Thunderstorm Wind (MG 85 kt)
	06/26/07 21:21 CST	4	0	32.72N, 102.65W

A damage survey was conducted by NWS personnel the morning following the winds. The results of the damage survey follow.

Winds were measured at 97.5 mph at the West Texas Mesonet site two miles north northeast of Seminole, however, there is visual indication that wind speeds in some locations around Seminole, were at times even stronger – estimated in the range of 100-120 mph. Communication tower damage, where a tower measuring 320 feet in height fell on a church and another tall tower was bent into the shape of a rectangle, both suggest higher wind speed estimates. Additionally, three miles east southeast of Seminole along County Road 402, at least eight wooden power poles were snapped just above the ground. This further supports the idea that winds were at times greater than 100 mph.

NWS personnel found many trees were uprooted and tree limbs down. The entire town of Seminole experienced damage, with areas just west of downtown and just east of town being hardest hit by the damaging winds.

The extent of the wind damage prompted the Gaines County EOC to request EMS/Fire assistance from Hobbs, NM. Included in the damage were two mobile homes that were rolled. One of these homes had four people inside, including one infant. All four were injured and the infant was kept for observation overnight at a Lubbock hospital.

Backup generators at the Emergency Operations center lost power as well as commercial power to much of Seminole.

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DAWSON COUNTY				
LAMESA	06/26/07 21:30 CST		0	Thunderstorm Wind (EG 61 kt)
	06/26/07 21:30 CST		0	32.73N, 101.95W
Strong winds blew a horse trailer into the street.				
ANDREWS COUNTY				
8.0 ESE ANDREWS	06/26/07 22:25 CST		0	Thunderstorm Wind (MG 51 kt)
	06/26/07 22:42 CST		0	32.2757N, 102.424W
The West Texas Mesonet Station in Andrews (KANS) measured a 59 mph wind gust, power was lost to the station shortly thereafter and no other observations were received. Sixty to seventy mph winds were estimated by the public based on a heavy spare tire being blown around.				
Trees were uprooted and power lines and poles were downed in Andrews as a result of high winds. Additional damage included a roof blown onto powerlines and several carports blown over.				
WINKLER COUNTY				
(INK)WINKLER CO ARPT	06/26/07 22:37 CST		0.10M	Thunderstorm Wind (MG 58 kt)
	06/26/07 22:45 CST		0	31.78N, 103.2W
The Automated Surface Observing Station at Wink (KINK) recorded a wind gust of 67 mph. A local media outlet reported downed powerlines and trees in Kermit. The roof at the Family Activity Center of the First Baptist Church in Kermit was severely damaged.				
CULBERSON COUNTY				
(GDP)GUADALUPE PASS	06/26/07 22:51 CST		0	Thunderstorm Wind (MG 62 kt)
	06/27/07 01:00 CST		0	31.8N, 104.8W
The Automated Surface Observing System at Guadalupe Pass (KGDP) recorded several wind gusts over 60 mph over this time, including one to 73 mph. No damage was reported.				
ECTOR COUNTY				
ODESSA	06/26/07 22:54 CST		0	Thunderstorm Wind (MG 55 kt)
	06/26/07 22:54 CST		0	31.85N, 102.37W
The Automated Surface Observing System at Odessa Schlemeyer (KODO) recorded a wind gust of 63 mph. As this report came in, multiple reports of power outages in Odessa started being phoned into the office. The Ector County emergency manager reported 20 power poles downed, 1500 customers without power, and two Texas Department of Transportation street signs, including a 48 inch flashing light sign. Local broadcasters reported that a front porch detached from the house was torn up and thrown approximately 50 yards.				
DAWSON COUNTY				
LAMESA	06/26/07 23:00 CST		0	Thunderstorm Wind (EG 51 kt)
	06/26/07 23:00 CST		0	32.73N, 101.95W
High winds uprooted trees in Lamesa.				
MIDLAND COUNTY				
(MAF) MIDLAND INTL	06/26/07 23:07 CST		50K	Thunderstorm Wind (MG 81 kt)
	06/26/07 23:26 CST		0	31.93N, 102.2W
The Automated Surface Observing Station at Midland International Airport (KMAF) recorded several wind gusts above 70 mph over a 20 minute period, including two of 93 mph. Shortly after the third recorded gust of 93 mph the power went out to much of the area around the airport, including the ASOS. Observations were missing for the next 12 to 16 hours as power was eventually restored and the ASOS was repaired. The 93 mph wind gust is the highest wind gust recorded at Midland International Airport.				
Also, a trained spotter in Midland measured an 80 mph wind gust along with power outages on Farm to Market Road 1788 near Texas State Highway 158.				
Numerous reports of damage occurred in Midland including: numerous trees downed across Midland, including one at a television station and numerous trees at two apartment complexes, north facing windows at an apartment complex in north Midland, and a roof blown off a mobile home at the intersection of West County Road 150 and Farm to Market Road 1788. Two local news stations (KMID and KWES) went off the air due to satellite dish problems. At the Commemorative Air Force headquarters, a 75-by-25 foot section of the hangar's roof was ripped open and one ticket booth was destroyed.				
ECTOR COUNTY				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ODESSA	06/26/07 23:23 CST		0	Flash Flood (due to Heavy Rain)
	06/27/07 03:30 CST		0	31.85N, 102.37W

City hall and the municipal plaza buildings were flooded in downtown Odessa.

MIDLAND COUNTY

GREENWOOD	06/26/07 23:36 CST		0	Hail (0.88 in)
	06/26/07 23:36 CST		0	32N, 101.92W

MIDLAND COUNTY

(MAF) MIDLAND INTL	06/26/07 23:45 CST		0	Flash Flood (due to Heavy Rain)
	06/27/07 15:00 CST		0	31.93N, 102.2W

Eighteen inches of water accumulated in the underpass of Interstate 20 and Farm to Market Road 1788. While water normally gathers here, pumps are available to pump the water out of the pass. Because the power was knocked out by 93 mph winds, the pumps were inoperable and water remained throughout much of the following day. The underpass was closed to traffic until the water was able to be pumped out.

HOWARD COUNTY

8.0 S BIG SPRING	06/26/07 23:46 CST		0	Thunderstorm Wind (MG 51 kt)
	06/26/07 23:55 CST		0	32.1343N, 101.47W

The Automated Weather Observing Station at Big Spring (KBPG) recorded a wind gust to 59 mph. Trained spotters reported mesquite trees bent in half by winds.

ANDREWS COUNTY

ANDREWS	06/26/07 23:56 CST		30K	Thunderstorm Wind (MG 51 kt)
	06/26/07 23:56 CST		0	32.32N, 102.55W

Powerlines and trees were downed by strong winds. A roof was also blown off a building and onto powerlines.

PECOS COUNTY

FT STOCKTON ARPT FST	06/26/07 23:59 CST		0	Thunderstorm Wind (MG 57 kt)
	06/27/07 00:17 CST		0	30.92N, 102.92W

The Automated Surface Observing System at Fort Stockton (KFST) recorded wind gusts to 66 mph. No damage was reported.

REEVES COUNTY

PECOS	06/27/07 00:23 CST		20K	Thunderstorm Wind (EG 56 kt)
	06/27/07 00:23 CST		0	31.42N, 103.48W

A trained spotter estimated winds of 64 mph. Trees and power lines were downed by strong winds.

TERRELL COUNTY

5.0 W DRYDEN	06/27/07 02:13 CST		0	Thunderstorm Wind (MG 55 kt)
	06/27/07 02:13 CST		0	30.05N, 102.204W

The Automated Surface Observing Station at Dryden (K6R6) recorded a wind gust of 63 mph. No damage was reported.

A strong squall line associated with a frontal boundary and weak upper level disturbance moved into the forecast area causing widespread severe weather and isolated flooding. A Severe Thunderstorm Watch was issued at 6:10 PM CDT and remained in effect until 1 AM CDT and was then extended until 5 AM as the line continued to push south. Damage reports began reaching the office around 9:30 PM CDT (8:30 MDT) as the line entered the northwestern portion of the forecast area and continued until 3:30 AM CDT when the line exited the forecast area.

As the storm entered Lea County New Mexico, reports of wind speeds in excess of 70 mph began coming into the office. These high winds continued as the line surged forward into West Texas. In Seminole, 98 mph (measured) wind speeds toppled several radio towers including a 320 foot tower that fell on a church and bus damaging both. In addition, the roof of Beall's Department store was destroyed and two mobile homes were rolled and destroyed injuring four people.

As the line continued its southward progression, so did the damaging winds. Many locations began experiencing power outages including two of the three television stations in the Midland/Odessa area, and Midland International Airport. WFO Midland and the Gaines County Emergency Operation Center continued working on back up generator power until commercial power was restored to the area. A 93 mph wind gust was measured at Midland International Airport just prior to the power loss, which rendered it inoperable for the remainder of the night.

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The event continued into the early morning hours on Wednesday, where Dryden reported a 63 mph wind gust prior to thunderstorms exiting the area.

Post storm damage surveys indicated that damage across the area was caused by a derecho. A derecho is a “widespread and long-lived wind storm associated with a band of rapidly moving showers or thunderstorms.”

While straight-line winds are common across West Texas – especially during the late spring and early summer – the magnitude of the wind speeds for this event is quite rare. As an example, the 93 mph wind reported in Midland eclipsed the old record of 86 mph set in February 1960, and was the strongest wind ever recorded in Midland since the NWS began official record keeping in 1930.

During this long-lived weather episode, all but two of the 26 counties within WFO Midland’s CWA experienced severe weather. The majority of these locations experienced high wind events, which resulted in power outages across the area. Because of backup power capability, WFO Midland was able to maintain warning operations throughout the entire severe weather event.

Summary of measured wind reports:

Dryden (K6R6) - 55 kts (63 mph)
 Big Spring (KBPG) - 51 kts (59 mph)
 Fort Stockton (KFST) - 57 kts (66 mph)
 Guadalupe Pass (KGDP) - 62 kts (71 mph)
 Wink (KINK) - 58 kts (67 mph)
 Midland (KMAF) - 81 kts (93 mph)*
 Odessa (KODO) - 55 kts (63 mph)
 Seagraves 1 SW (KSGV) - 66 kts (76 mph)
 Andrews 2 E (KANS) - 51 kts (59 mph)*
 Seminole 2 NNE (KSMS) - 85 kts (98 mph)*
 Lamesa 2 SE (KLES) - 45 kts (52 mph)*
 Gail 2 ESE (KGGS) - 43 kts (50 mph)*
 Pecos (KPEQ) - 56 kts (64 mph)
 McDonald Observatory - 61 kts (70 mph)
 Tatum, NM Co-op Observer - 68 kts (78 mph)

*These sites lost power shortly after observations, it may be assumed that peak wind gusts were somewhat higher than observed.

CULBERSON COUNTY

(GDP)GUADALUPE PASS	06/28/07 04:42 CST	0	Thunderstorm Wind (MG 51 kt)
	06/28/07 04:51 CST	0	31.8N, 104.8W

The Automated Surface Observing System at Guadalupe Pass (KGDP) recorded a wind gust of 59 mph. No damage was reported.